

# DH-IPC-HDBW2531R-ZAS/VFAS

5MP WDR IR Dome Network Camera



**System Overview** 

The IR Megapixel Vari-focal camera delivers 5MP resolution with a 2.7 mm - 13.5 mm varifocal lens. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

- **Functions**
- Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

### Intelligent Video analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

## Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

- · 1/2.7" 5Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 15fps@5M(2592×1944)&25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 2.7~13.5mm varifocal lens
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE









With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of

closer to the camera. The camera's integrated infrared illumination

camera's infrared LEDs to compensate the distance of an object. Smart

IR technology prevents IR LEDs from whitening out images as they come

provides high performance in extreme low-light environments up to 30m





#### Protection (IP67, IK10, wide voltage)

The camera allows for  $\pm 10\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

#### Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

## Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

#### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification						Day/Night	Auto(ICR) / Color / B/W
Camera						BLC Mode	BLC/HLC/WDR(120dB)
Image Sensor		1/2.7" 5Megapixel progressive CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		2592(H) x1944(V)				Gain Control	Auto/Manual
RAM/ROM		512MB/32MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detection	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.02Lux/F1.6( Color,1/3s,30IRE) 0.2Lux/F1.6( Color,1/30s,30IRE) 0Lux/F1.6(IR on)				Electronic Image Stabilization(EIS)	N/A
S/N Ratio		More than 50c	IB			Smart IR	Support
IR Distance		Distance up to	30m(98ft)			Digital Zoom	16x
IR On/Off Contro	IR On/Off Control					Flip	0°/90°/180°/270°
IR LEDs		2				Mirror	Off / On
Lens						Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Motorized(-ZS),Manual(-VFS)				Audio	
Mount Type		Board-in				Compression	G.711A/G.711Mu/G.726/AAC
Focal Length		2.7mm~13.5mm				Network	
Max. Aperture		F1.6				Ethernet	RJ-45 (10/100Base-T)
Angle of View		H:95°~27°, V:70°~20°				Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;DHC P;DNS;DDNS;PPPOE;IPv4/v6;Qos;UPnP;NTP;Bonjour ;IEEE802.1x;Multicast;ICMP;IGMP;TLS;RTCP
Focus Control		Motorized(-ZAS), Manual(-VFAS)				Interoperability	ONVIF Profile S&G,API
Close Focus Dist		0.3m	0.1			Streaming Method	Unicast / Multicast
	Lens	Detect	Observe	Recognize	Identify	Max. User Access	10 Users / 20 Users
DORI Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)	Wax. Osci /teess	
PTZ		222m(728ft) 89m(292ft) 44m(144ft) 22m(72ft)			22m(72ft)	Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB
Pan/Tilt Range		Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, DMSS
		Motion detect				Smart Phone	IOS, Android
Event Trigger		changing, Network disconnection, IP address conflict, Illegal acess, Storage anomaly				Certifications	
ıvs Video		Tripwire, Intrus	sion			Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression			/MJPEG(Sub S	tream)		Interface	· ·
Smart Codec		Support H.265	5+/h.265+			Video Interface	N/A
Streaming Capability		2 Streams				Audio Interface	1/1 channel In/Out
		5M(2592×1944)/4M(2688x1520)/ (2560×1440)/(2304x1296)/1080P(1920x1080)/				RS485	N/A
Resolution		SXGA(1280×1024)/1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240) Main Stream: 5M (1 ~ 15fps)/4M(1 ~ 20fps)/				Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Frame Rate		Main Stream: 5 3M (1 ~ 25/30fp Sub Stream: D2	os)/2M(1 ~ 25/	/30fps)	)/	Electrical	
Bit Rate Control		CBR/VBR	2, 511 (1 20/2	J. (24)		Power Supply	DC12V PoE (802.3af)(Class 0)
Bit Rate		H.265: 12K ~ 8448Kbps				Power Consumption	<9.5W(-ZAS), <7.5W(-VFAS)
Die Nate		H.264: 32K ~ 10240Kbps					

## Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

#### Construction

Casing	Metal
Dimensions	ф122mm×88.9mm(4.80''x3.50'')
Net Weight	0.4Kg (0.88lb)
Gross Weight	0.54Kg(1.19lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDBW2531RP-ZAS	5MP WDR IR Dome Network Camera, PAL		
	DH-IPC- HDBW2531RN-ZAS	5MP WDR IR Dome Network Camera, NTSC		
	IPC-HDBW2531RP- ZAS	5MP WDR IR Dome Network Camera, PAL		
5MP camera	IPC-HDBW2531RN- ZAS	5MP WDR IR Dome Network Camera, NTSC		
Sivir Calliela	DH-IPC- HDBW2531RP-VFAS	5MP WDR IR Dome Network Camera, PAL		
	DH-IPC- HDBW2531RN-VFAS	5MP WDR IR Dome Network Camera, NTSC		
	IPC-HDBW2531RP- VFAS	5MP WDR IR Dome Network Camera, PAL		
	IPC-HDBD2531RN- VFAS	5MP WDR IR Dome Network Camera, NTSC		
	PFA137	Junction box		
	PFB203W	Wall mount		
Accessories (optional)	PFA152-E	Pole mount		
	PFB200C	In-celling Mount		
	PFA200W	Rain shade		

# Accessories

# **Optional:**











PFA137 **Function Box** 

PFB203W

PFA152-E

PFB200C Wall mount Pole mount In-celling Box

Rain shade

Junction Mount	Inceiling Mount	
	=	
PFA137	PFB200C	
Wall Mount	Pole Mount	
PFB203W	PFB203W + PFA152-E	
Wall Mount with Rain Shade	Pole Mount with Rain Shade	
PFA137+PFA200W	PFA137+PFA152-E+PFA200W	

# Dimensions (mm/inch)



